	h No. 9104P128		Site Solar Ponds	
	oratory <u>IT-Pittsburgh</u>		No. of Samples/Matrix _5/	
	V # 10/86 (Rev. 2/88)		Reviewer Org. QuantaLex	
Sam	ple Numbers <u>SW01064WC</u>	<u>. SW01065WC</u>	C. SW01068WC. SW80110WC. SW801	11WC
	-	Data A	ssessment Summary	
		VOA	Comments	
1.	Holding Times	v		
2.	GC/MS Tune/Instr. Perf.			
3.	Calibrations	A	Action Items 1.2: Comment 1	
4.	Blanks	A	Action Item 3: Comment 2	
5.	Surrogates	<u> </u>		
6.	Matrix Spike/Dup.	X		
7.	Other QC	X	Comments 3.4.5	
8.	Internal Standards	<u> </u>		
9.	Compound Identification			
10.	System Performance	V		
11.	Overall Assessment	A	Data acceptable with qualifications.	
	 V = Data had no problems. A = Data acceptable but qualified due to R = Data rejected. X = Problems, but do not affect data. 	problems.		
qua		nt individual value	wed and found to be acceptable with qualification is impacted by the "Action Items" listed below a	
110	to to attached Data Summary Tubb		REVIEWED FOR CLASSIFICATION/U	CNI

Date ___

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104p128v/voa

Action Items: 1) The %RSD for Acetone exceeded 50% in the 4/12/91 (instrument	t 1) initial calibration,
Therefore, the non-detected result for Acetone in sample SW01064WC is rejected. The	e positive results in sample
SW01068WC and SW01065WC would be estimated (J) if not for blank contamination	(see Action Item 3). (The
%D for Acetone exceeded 25% in the 4/17/91 (1405) continuing calibration.)	· .
2) The %Ds for Acetone exceeded 25% in the 4/17/91 (1456) continuing calibratic	on on instrument 3. The
positive result for Acetone in sample SW80110WC is estimated (J).	
3) As a result of method blank contamination, the positive results for Acetone in s	amples SW01068WC and
SW01065WC are reported as undetected and estimated (J) according to the Functional	Guidelines criteria (10x
rule).	
Comments: 1) The %RSD or %D for several compounds exceeded criteria in various	ous calibrations. No action is
necessary because there were no positive results for these compounds in the associated	samples.
2) The positive result for Acetone in VBLK 4/18/91 (1003) was not reported on the	e Form 1, but was correctly
reported on the data summary tables.	
3) The (B) flag was removed from the data summary tables by QuantaLex for VB	LK 4/17/91 (1506). This
flag is not needed to indicate blank contamination for method blank results.	•
4) The chain-of-custody indicated that the cooler containing sample SW80111WC	was lost by Federal Express
and was not received at ITAS-Pittsburgh until 4/18/91. A letter dated 6/11/91 from ITA	AS-Pittsburgh project
manager David Dunlap stated that the VOA vials were not in this cooler. The VOA sa	mple was received at
ITAS-Pittsburgh on 4/17/91 as indicated on Form 1.	
5) Sample SW01068WC was received at the laboratory at 10°C. The affect on the	is sample is not known.
Note: Data Summary Tables are attached.	
Louis h. Dicknay	6/17/91
Validator Signature	Date
William T. Fer	6/17/91
Reviewer Signature	Date /

COLLECTION			3	_		<u> </u>	BLANK							RETEN		INSTRUMEN				EN S
DATE THE	BATCH	SAMPL	SAMPL SAMPLE	LAB DATE	DATE DATE III		SAMPLE	PANEL	RS CAS	ANALYTI	M 100	2.84G	9	<u> </u>	DADAMETED NAME	DETECTION	REASO		OF THE SE	Q.
		WATER	Q10409001A	1<	16/17/91		VBLK4-17-91 1506	Į	IR 71-55-6		1		UGAL	!	1.1.1-Trichloroethane	8	1	_	_	3
E	Г	Т	Q10409001A	Y ₄ E	16/17/91		VBLK4-17-91 1506	VOCCLETC, TR 79-34-5	IR 79-34-5	5	2		UGAL		1,1,2,2-Tetrachloroethane	S.0000 v		+	T	
<u>e</u>	P128 04/17/91	WATER	Q10409001A	¥	16/11/90		VBLK4-17-91 1506	VOCCUPICE TR 79-00-5	TR 79-00-5	S	Ω		UGAL		1,1,2-Trichloroethane	v 0000.8		F		
<u> </u>	P128 04/17/91	MATER (Q1006001A	тъ	16/11/91		VBLK4-17-91 1506	VOCCLPICE TR 75-34-3	TR 75-34-3	5	D		UG/L	Ē	1,1-Dichloroethane	y 0000'S		_		
E	P128 04/17/91	WATER	Q10409001A	Y-LI	16/11/91		VBLK4-17-91 1506	VOCCIPICE, TR 75-35-4	IR 75-35-4	5	ם		UGAL		1,1-Dichloroethene	y 0000'S	Ė			
2	P128 04/17/91	WATER	Q10409001A	MPA	16/11/91		VBLK4-17-91 1506	VOCCLPTCL TR 107-06-2	IR 107-06-2	5	ח		UGL		1,2-Dichloroethane	v 0000.2	<u> </u>	L		
E	P128 04/17/91	WATTER	Q10409001A	Y ₄ L	16/11/91		VBLK4-17-91 1506	VOCCLPTC, SU VOA-SUR3	U VOA-SUR	38			8		1,2-Dichloroethane-D4			F		
E	P128 04/17/91	WATER	Q10409001A	¥.	16/17/91		VBLK4-17-91 1506	VOCCLPTCL TR 540-59-0	R 540-59-0	5	Ω		UGAL		1,2-dichloroethene (total)	s.0000 v				
E	P128 04/17/91	WATER	Q10409001A	¥ďE	16/17/91		VBLK4-17-91 1506	VOCCLPTCL, TR 78-87-5	TR 78-87-5	5	D		UGAL		1,2-Dichloropropane	s.0000 v		F		
E E	P128 04/17/91	WATER	Q10409001A	Y-LL	16/17/91		VBLK4-17-91 1506	VOCCLPTCL TR 78-93-3	78-93-3	10	D		UGAL	2	2-Butanone	v 00000 v				
<u>-</u>	P128 04/17/91	WATER	Q10409001A	WPA	16/17/91		VBLK4-17-91 1506	VOCCLPTCL TR 591-78-6	TR 591-78-6	10	Ω		UG/L	2	2-Hexanone	v 0000.01		F		
<u> </u>	P128 04/17/91	WATER	Q10409001A	¥	16/17/91		VBLK4-17-91 1506	VOCCUPICE TR 108-10-1	TR 108-10-1	10	Ω		UGAL	4	4-Methyl-2-Pentanone	v 000001		_		
E	P128 04/17/91 V	WATTER	Q10409001A	TPA TTPA	16/11/91		VBLK4-17-91 1506	VOCCLPTCL, TR 67-64-1	R 67-64-1	9	æ		UGAL		Acetone	AL 000001		49	10	UG/L
E	P128 04/17/91	WATTER	Q10409001A	TPA TTPA	16/11/91		VBLK4-17-91 1506	VOCCLPTCE TR 71-43-2	R 71-43-2	5	Ω		UQ/L	H	Benzene	> 0000°S				
E	P128 04/17/91	WATER	Q10409001A	¥4E	16/11/91		VBLK4-17-91 1506	VOCCLETICAL TR 75-27-4	TS-27-4	5	D		UQA	E	Bromodichloromethane	s.0000 v		_		
=	P128 04/17/91 P	WATER	Q10409001A	νаш	16/17/91		VBLK4-17-91 1506	S TOLATOOON	VOCCLPTCL SU VOA-SUR2	2 103			8	E P	Bromofluorobenzene					
ы	P128 04/17/91	WATER	Q10409001A	ΠPA	16/11/91		VBLK4-17-91 1506	VOCCIPICA TR 75-25-2	R 75-25-2	5	Ω		NOVE	B	Bromoform	v 0000.2	F	_		
P	P128 04/17/91 W	WATER	V10060101Ò	пРА	16/17/91		VBLK4-17-91 1506	VOCCLP1CL TR 74-83-9	R 74-83-9	10	Ū		novr	H H	Bromomethane	v 0000.01				
ď	P128 04/17/91 w	WATER	Q10409001A	TPA	16/11/91		VBLK4-17-91 1506	VOCCLPTCL, TR 75-15-0	R 75-15-0	5	U		UGAL)	Carbon disulfide	v 0000.2				
E	P128 04/17/91	WATER	Q10409001A	₩Ш	16/11/91		VBLK4-17-91 1506	VOCCLPTC. TR 56-23-5	R 56-23-5	5	n		novr)	Carbon tetrachloride	v 0000.2				
<u>-</u>		WATER	Q10409001A	ΙΡΑ	16/17/91		VBLK4-17-91 1506	VOCCLPTCL TR 108-90-7	R 108-90-7	5	n		UGAL	J	Chlorobenzene	v 0000.2				
E.	P128 04/17/91 W	WATER	Q10409001A	MΡΑ	16/11/91		VBLK4-17-91 1506	VOCCLPTCL TR 75-00-3	R 75-00-3	10	U		UGAL)	Chloroethane	v 0000.01				
Ξ	P128 04/17/91 W	WATER	Q10409001A	Ψ¥	16/11/90		VBLK4-17-91 1506	VOCCLPTCL TR 67-66-3	R 67-66-3	1	J		UGAL)	Chloroform	₹ 0000'5				
E.	P128 04/17/91	WATER	Q10409001A	ШЪΑ	16/11/91		VBLK4-17-91 1506	VOCCLPTCL TR 74-87-3	R 74-87-3	10	Ω		novr	٥	Chloromethane	v 0000.01		L		
Ā	P128 04/17/91	WATER	V10060¥01Ò	Y.	16/11/40		VBLK4-17-91 1506	VOCCLPYCE TR 10061-01-5	R 10061-01	5 5	n		UGAL	ี่	cis-1,3-Dichloropropene	v 0000.2				
Ы	P128 04/17/91 W	WATER	Q10409001A	ΠPA	16/17/91		VBLK4-17-91 1506	VOCCLPTCL TR 124-48-1	R 124-48-1	5	Ω		מסער	1	Dibromochloromethane	5.0000 v	_			
Ā	P128 04/17/91 W	WATER	Q10409001A	MPA	04/17/91		VBLK4-17-91 1506	VOCCLPTCL TR 100-41-4	R 100-41-4	5	U		UGAL	Э	Ethylbenzene	v 0000.2				
E	P128 04/17/91 W	WATER	Q10409001A	ΠPA	16/11/91		VBLK4-17-91 1506	VOCCLPTCL TR 75-09-2	R 75-09-2	5	n		novr	2	Methylene chloride	v 0000.8				
F	P128 04/17/91	WATER	Q10409001A	TPA	16/11/91		VBLK4-17-91 1506	VOCCLPTCL TR 100-42-5	R 100-42.5	5	U		nove	S	Styrene	v 0000.2		L		
F	P128 04/17/91	WATER	Q10409001A	VΔL	16/17/91		VBLK4-17-91 1506	VOCCLFICE TR 127-18-4	R 127-18-4	5	ū		UGAL	1	Tetrachloroethene	5.0000 v		_		
Ā	P128 04/17/91 w	WATER	Q10409001A	MΡΑ	16/11/91		VBLK4-17-91 1506	VOCCLPTCL TR 108-88-3	R 108-88-3	5	ŭ		UGAL	T	Tohene	v 0000.2	F	_		
E.	P128 04/17/91 W	WATER	Q10409001A	TPA TPA	16/17/91		VBLE4-17-91 1506	VOCCEPTCE SU VOA-SURI	U VOA-SUR	1 103			4	I	To hene-D8					
Ε.	P128 04/17/91	WATER	Q10408001A	TPA TI	16/11/91		VBLE4-17-91 1506	VOCCENTE 1R 1330-20-7	R 1330-20-7	5	U		UGAL	Ţ	Total Xylenes	v 0000.2				
7	P128 04/17/91	WATER	Q10409001A	Ψ	16/17/91		VBLX4-17-91 1506	VOCCLPTCL TR 10061-02-6	R 10061-02-6	. 5	U		UGAL	2	trans-1,3-Dichloropropene	v 0000.2				
-	_	WATTER	Q10409001A	¥	16/17/91		VBLK4-17-91 1506	VOCCLPTCL TR 79-01-6	R 79-01-6	3	-		UGAL	T	Trichloroethene	V 0000'S				
Σ	P128 04/17/91 W	WATER	Q10409001A	Y dii	16/11/91		VBLK4-17-91 1506	VOCEZPICE TR 108-05-4	R 108-05-4	10	U		UGAL	>	Vinyl acetate	v 0000.01	H			
Ā	- 1020 0000																			



Bate	ch No. <u>9104P128</u>		Site Solar Ponds
Lab	oratory ITAS-Pittsburgh	·	No. of Samples/Matrix <u>5/Water</u>
SOV	W # 10/86 (Rev. 2/88)		Reviewer Org. QuantaLex. Inc.
San	iple Numbers <u>SW01064W</u>	C, SW01065WC.	SW0168WC, SW80110WC, SW80111WC
		Data Ass	sessment Summary
		BNA	Comments
1.	Holding Times	<u> </u>	
2.	GC/MS Tune/Instr. Perf.	<u>V</u>	
3.	Calibrations	A	Action Items 1.2: Comment 1
4.	Blanks	A	Action Item 3
5.	Surrogates	V	
6.	Matrix Spike/Dup.	X	Comment 2
7.	Other QC	<u> </u>	
8.	Internal Standards	<u> </u>	
9.	Compound Identification	X	Comments 3.4
10.	System Performance	<u>V</u>	
11.	Overall Assessment	A	Data acceptable with qualifications.
	 V = Data had no problems. A = Data acceptable but qualified due to R = Data rejected. X = Problems, but do not affect data. 	problems.	
Dat	a Quality: Data contained in the	is batch were reviewe	ed and found to be acceptable with qualifications. Acceptable, qualified
data	may be used provided that individ	ual values impacted l	by the "Action Items" listed below are appropriately flagged.
(Rei	fer to attached Data Summary Tabl	es.)	

Action Items: 1) The %RSD for 3-Nitroaniline exceeded 50% in the initial calibration	ation. The non-detected
results for this compound in all samples are rejected (R).	
2) The %Ds for Benzoic Acid, 4-Chloroaniline and 4-Nitroaniline exceeded 50%	in the continuing
calibration. The non-detected results for these compounds in all samples are rejected (R).
3) As a result of method blank contamination, the positive results for Di-n-Butylg	hthalate in all samples are
reported as undetected and estimated (J) according to the Functional Guidelines criteri	a (10x rule).
Comments: 1) The %RSDs and %Ds for several compounds in the initial and con	tinuing calibrations exceeded
criteria. No action is taken because there were no positive results for these compounds	S
2) Form 3 for the MS/MSD analysis incorrectly report a result of 7.8 ug/l for Pen	tachlorophenol in the
unspiked sample. The corrected percent recoveries for Pentachlorophenol are within C	C limits and no action is
required.	· · · · · · · · · · · · · · · · · · ·
3) Extraneous ions were present in the mass spectra for Di-n-Butylphthalate in sa	mples SW01064WC,
SW01065WC, and SW80111WC. This indicated the presence of a non-HSL compound	nd, but does not necessarily
interfere with the quantitation of the target compound. Therefore, no action is necessar	ry.
4) Three TICs were found in sample SW01065WC.	
Note: Data Summary Tables are attached.	
This to Fashmen	6/12/91
Validator Signature	Date
Willin T. Fer	6/12 m
Reviewer Signature	Date

SAMPL SAMPLE	SAMPL SAMPLE	SAMPL SAMPLE	SAMPL SAMPLE	SAMPLE	SAMPLE			3		_					-						8	L	_
COLLECTION LAB LAND LAB DATE LAB DATE DATE THE SAMPLE PARE	BATCH SAMPLE LAB DATE DATE TWE SAMPLE	SAMPLE LAB DATE THE SAMPLE	LAB PREP AVALYSIS BLANK SAMPLE LAB DAYE DATE TIME SAMPLE	PREP AVALYSIS BLANK DATE DATE TIME SAMPLE	DATE THE SAMPLE	BLANK	BLANK	₽ 3		CAS	TA IAMA	138 E	280	TIMO YOU	RETEN	3 6	INSTRUMENT DETECTION DEACONS	1	4	5	5	3 5	
NUMBER MATTEC NUMBER ID MANOOV HHI: NUMBER	NUMBER MATTEC NUMBER ID MANOOV HHI: NUMBER	MATTER NUMBER ID MANON MANDO HET: NUMBER	NUMBER ID MANOOV HET: NUMBER	MANDOV MANDOV HH: NUMBER	V NEWDOV HH: NUMBER	NUMBER	NUMBER	<u>: 8</u>		3	_		ERROR	36		PARAMETER NAME		1 2	4	OC. RESULT	MEAS.	¥ 8	
WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TTPA 04/18/91 04/19/91 SBLR4-19-91 1334	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		1"	WOLLTIG	SVOCIMICA TR 111-91-1	9	5		UGAL	25	hane	10.0000 v		L				_
WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		5	VOCLTTG.	SVOCIFIC. TR 111-44-4	91	n		UGAL	<u> </u>	bis(2-Chloroethyl) Ether	10.0000 v		F		L	\downarrow	
P128 04/17/91 WATER Q10409001A [TPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		1	WOCLFTCL	SVOCLPTCL TR 108-60-1	o1	э		UGAL	25	bis(2-Chloroisopropyl)Ether	10.0000 v		F			L	
P128 04/1/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		۳	WOOLPICE	SVOCIFICE, TR 117-81-7	2	p		UGAL	35	bis(2-Ethylhexyl)Phthalate	10,0000 v		F		L	L	_
WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		-	SVOCLPTCL TR 85-68-7	TR 85-68-7	9	ם		UG/L	F	Butylbenzylphthalate	10.0000 v				L	L	
WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q1006001A TTPA 0478/91 0479/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324			SVOCING	SVOCLFTCL TR 218-01-9	9	'n		NG/L	0	Chrysene	10,0000 v	l	T			1	
WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TIPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		1 "	VOCLPTCL	SVOCINC TR 132-64-9	or	ם		UGV	۵	O.S.	10,0000 v	İ	+		L	ļ	-
P128 04/1/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		-	SVOCISTICE TR 53-70-3	TR 53-70-3	or	ם		UG/L	۵	Dibenzo(a,b) Anthracene	10.0000 v	Ė	F		L		_
P128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		8	VOCLPTCE.	SVOCLFTCL TR 84-66-2	4	_		UGAL	۵	Diethylphthalate	10.0000 A		F			L	_
P128 04/17/91 WATER Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A TIPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A TIPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		ઢ	OCL PTC.	SVOCE PTC. TR 131-11-3	10	מ		UG/L	۵	Directhyl Phthalate	1					L	
P128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		š	arma.	SVOCIPIC TR 84-74-2	4	æ		UGAL	ă	Di-n-Butylphthalate	10.0000 JA	E	\$	10	10 UG/L	þ	
P128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A ITPA 04/18/91 04/19/91 SBL.K4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		š	വചര.	SVOCLPICE, TR 117-84-0	10	ם		UG/L	ā	Di-n-Octyl Puhalane	1		-			L	
P128 04/1791 WATTER Q10409001A [TPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		š	ama.	svocarra, TR 206-44-0	10	n		UCAL	2	Fluoranthene	v 0000.01		-			L	
7128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		8	ama 1	SVOCL PTR 86-73-7	10	n		UQ/L	Ē	Fluorene	10.0000 v					L	_
P128 04/17/91 WATER Q10409001A [TPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A [TPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A [TPA 04/18/91 04/19/91 SBLK4-19-91 1324	TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		Š	a.ภาณ 1	SVOCLPTC. TR 118-74-1	10	'n		ngγ.	11.	Hexachlorobenzona	10.0000 v		F			L	~
P128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	Ī	윩	סמישט ז	SVOCLPTC, TR 87-68-3	01	ņ		UGAL	ž	Hexachlorobutadiene	v 0000.01		L				_
P128 04/7/91 WATER Q10409001A [TPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A 17PA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A 17PA 04/18/91 04/19/91 SBLK4-19-91 1324	TPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		B	oarra 1	SVOCLPTCL TR 77-47-4	10	Ω		UG/L	*	Nexachlorocyclopentadiene	10,000 v		F				
P128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		5	SVOCLPTC TR 67-72-1	TR 67-72-1	10	ת		UG/L	==	Hexachluroethane	10.0000 v	<u> </u>	F			L	_
P128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		En .	VOCETICE, 1	SVOCIFICE TR 193-39-5	10	n		UG/L	Ā	Indeno(1,2,3-cd)pyrane	10.0000 v					L	_
P128 0477/91 WATER Q10405001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		-	SVOCLPTC. TR 78-59-1	TR 78-59-1	10	Ω		UG/L	3	Lophorone	10.0000 v	F	F				
P128 04/1/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		1	SVOCLPTC TR 91-20-3	TR 91-20-3	10	ū		UG/L	ž	Naphthaleno	V 0000.01		F				
P128 04/1/61 WATHE Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATTER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1334	Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLE4-19-91 1324	SBLE4-19-91 1324	SBLE4-19-91 1324		5	OCTION S	SVOCEPICE SU SVOA-SURI 61	1917			82	ž	Nitrobensense-d5		-					
P128 04/1/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		5	SVOCIPIC. TR 86-30-6	TR 86-30-6	10	U		UG/L	N.	N-Nitrosodiphenylamine	v 0000.01	F					
P128 04/17/91 WATER Q104/09001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1334	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		5	OCLINAL 1	SVOCIFICE TR 621-64-7	10	n		UQ/L	N.	N-Nitroso-Di-n-Propylamine	v 0000.01	F					
P128 04/1/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	TPA 04/18/91 04/19/91 SBL.K4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324			SVOCEPTCE TR 87-86-5	TR 87-86-5	R	-		UQ/L	Æ	Pentachlorophenol	\$0.0000 A						
P128 04/7/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		6	SVOCIPIC, TR 85-01-8	TR 85-01-8	01	n		UG/L	£	Phonanthrane	v 0000.01						
P128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A [ITPA 04/18/91 04/19/91 SBLK4-19-91 1334	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		ñ	יסמידים,	SVOCIPIC. TR 108-95-2	01	n		UG/L	Æ	Phenot	10,0000 v		F				
P128 04/17/91 WATER Q10409001A [TPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TPA 04/18/91 04/19/91 SBLK4-19-91 1324	TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		6	ocama s	SVOCEMICE SU SVOA-SUR4 26	25			38	Æ	Phenol-d5			F				
04/11/91 P128 04/17/91 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324 S	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1334	Q10409001A TTPA 04/18/91 04/19/91 SBLIK4-19-91 1324	ITPA 04/18/91 04/19/91 SBL.IK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		8	WOCE TO	SVOCLFTC TR 129-00-0	01	n		UGAL	3	Ругазе	v 0000.01	F			L		
WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLIK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		-	WOCIETOL S	SVOCETICE SU SVOA-SURE 114	3114			·	12	Terphonyl		F	F				
P128 04/1791 WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A [TPA 04/18/91 04/19/91 SBLK4-19-91 1324	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		-	SYDGL TIC	<u>1</u>	12	_	-	UG/L ×	24.65	UNKNOWN			F			L	
P128 04(17/9) WATER Q10409001A TTPA 04(18/9) 04(19/9) SBLK4-19-91 1324	WATER Q10409001A TTPA 04/18/91 04/19/91 SBLE4-19-91 1324	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	TTPA 04/18/91 04/19/91 SBLIK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324		-	SWOCLPTCL TIC	P	8.2	-		UG/L 6.	6.53	UNKNOWN		F	-			I	
04/11/91 P128 04/17/91 WATER Q104/0901A ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	WATER Q10409001A ITPA 04/18/91 04/19/91 SBLK4-19-91 1334	Q10409001A TTPA 04/18/91 04/19/91 SBLK4-19-91 1324	ITPA 04/18/91 04/19/91 SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324	SBLK4-19-91 1324			SYOCIATOL TIC	ħ.	17	-		UG/L 36	52 U	26.52 UNKNOWN		_	F			I	

Bato	ch No. <u>9104P128</u>		Site Solar Ponds
Lab	oratory IT-Pittsburgh		No. of Samples/Matrix 5/Water
SOV	V # 10/86 (Rev. 2/88)		Reviewer Org. QuantaLex. Inc.
Sam	ple Numbers <u>SW01064WC</u>	SW01065WC.	SW01068WC, SW80110WC. SW80111WC
		Data Ass	essment Summary
		Pesticides/PCB	Comments
1.	Holding Times	V	
2.	Instrument Performance	V	
3.	Calibrations	X	Comment 1
4.	Blanks	<u> </u>	
5.	Surrogates	V	
6.	Matrix Spike/Dup.	X	Comment 2
7.	Other QC	X	Comments 3.4
8.	Compound Identification	X	Comment 5
9.	System Performance	V	
10.	Overall Assessment	V	Data are valid.
	 V = Data had no problems. A = Data acceptable but qualified due to R = Data rejected. 	problems.	
	X = Problems, but do not affect data.		
Dat	a Quality: Data contained in thi	s batch were reviewed	d and found to be valid. (Refer to attached Data Summary Tables.)
	·	<u> </u>	

Comments: 1) The calibration factor percent difference for Dieldrin in the Individ	ual Mix A analyzed 4/24/91
(2057) exceeded 15% on the primary column. No action is necessary because there we	ere no positive results for this
compound.	
2) The relative percent difference for Endrin exceeded criteria in the matrix spike,	matrix spike duplicate
analysis of sample SW01064WC. No action is necessary because results are not qualif	fied due to MS/MSD alone.
3) According to the chain-of-custody, the cooler containing samples SW01068W0	C and SW80111WC was lost
by Federal Express. These samples were received at a temperature of 10°C.	
4) What appears to be instrument detection limits for two instruments dated 5/1/8	9 and 9/13/90 were provided
by the laboratory.	
5) Samples SW01064WC and SW80111WC were analyzed at a 4x dilution as exp	plained in the case narrative.
The diluted results are reported on the Data Summary Tables,	
Note: Data Summary Tables are attached.	
Pamela S. Rogus	6-17-91
Validator Signature	Date
That land	6-17-91
Reviewer Signature	Date

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	INSTRUMEN	DETECTION REASONS	LIMIT	0.1000	0.1000	0.1000	0,0500	0.0500	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	1.0000	1,0000	0.0500		0.0500	0.1000	0.0500	0.1000	0.1000	0.1000	0.1000	0.050.0	0.5000	0.050.0	0.050.0	0.5000	1.0000
			PARAMETER NAME	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-BHC	alpha-Chlordane	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	beta-BHC	DBC	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Bodrin	Endrin ketone	gamma-BHC (Lindane)	gamma-Chlordane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
L	RETEN	NO.	THE .	L							_				L					L				L	L	L					
	LING	å	MEASU	UG/L	UG/L	NG/L	UGAL	UGAL	UG/L	UG/L	UGAL	UG/L	NG/L	UGAL	UG/L	NO/L	NOV	82	UG/L	nove	UGAL	NG/L	no/r	UG/L	UGAL	NG/L	UGAL	UG/L	UG/L	UGAL	UGAL
		2 SIG	ERROR																												
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		AMALYTI QUA	RESULT	01.0	01.0	0.10	0.050	0.050	050	.50	0.50	.50	.50	05.0	1.0	0	0.050	2	0.050	0.10	0.050	0.10	0.10	0.10	0.10	0.050	0.50	0.050	0.050	0.50	0
		CAS	ID MUMBER R							74-11-2		11-16-5 0	9-11-9		$\overline{}$	6-82-5		T-SURL 6		Г		3-65-9 0.									-35-2 1.0
L		\$	2	TR 72	TR 72.	ξ. 8	TR 309	TR 319	TR 510	TR 136	TR 111	TR 111	TR 534	TR 126	TR 110	TR 110	TR 319	TR PBS	TR 319	TR 60-5	-656 XI	TR 332	TR 103	TR 72.2	TR 534	TR 58-8	TR SIC	TR 76-4	TR 102	TR 72-4	TR 8001
3	TEST	PAMEL	CODE	PETCL TR 72:54-8	PSTCL. TR 72-55-9	PSTCLPTCL TR 50-29-3	1R 309-00-2	PSTG_FTG_ TR 319-84-6	PSTCLPTCL TR 5103-71-9	PSTCL TR 12674-11-2 0.50	PSTCLPTC. TR 11104-28-2	PSTCIPICE TR 11141-16-5 0.50	PSTCL PTC. TR 53469-21-9 0.50	PSTCLPTC TR 12672-29-6	METCLETCL TR 11097-69-1	MICLIFICE TR 11096-82-5 1.0	PSTCLPTCL TR 319-85-7	Percuria, TR PEST-SURI 62	1R 319-86-8	MICLETC. TR 60-57-1	PSTCLPTC TR 959-98-8	PSTCL TR 33213-65-9	PSTCLPTCL TR 1031-07-8	PSTCLFTC TR 72-20-8	PRICETIC TR 53494-70-5	PETCL TR 58-89-9	MICLETAL TR 5103-74-2	PSTC TR 76-44-8	PETCLETCL TR 1024-57-3	PSTCLPTC TR 72-43-5	PSTCLPTC. TR 8001-35-2
	¥	4	£6	202	2022	2022	202	202	2022	2022	2022	2022	202	2020	2022	202	2022	2022	2022	2022	202	2022	202	202	2022	2022	2022	202	202	202	2022
	BLANK	SAMPLE		PBLK 090	PBLK 090	PBLK 090	PBLK_090	PBLK 090	PBLK_090	PBLK 090	PBLK_090	PBLK_090	PBLK 090	PBLK_090	PBLK 090	PBLK_090	PBLK 090	PBLK_090	PBLK 090	PBLK_090	PBLK 090	PBLK 090	PBLK 090	PBLK_090	PBLK 090	PBLK 090	PBLK 090	PBLK 090	PBLK 090	PBLK_090	PBLK 090
H		¥	¥	73	분	æ	Ē	Æ	Ē.	PBI	PBL	PBL	PBL	PBL	IB.	PBL	PB.	PBL	PBL	781	PBL	78.	PBL	PBL	184	Ē	78	PBL	P81.	PBE	Æ
APPLE.	AMALYES	E E	MODV H	16/16	16/96	16/96	24/91	04/24/91	24,91	24/91	24/91	16/92	24/91	24/91	24/91	24/91	16/16	16/91	24/91	24,91	16/91	16/91	16/10	16/97	16/90	24/91	16/10	16/91	34,91	16/10	16/10
SAMPL SAMPLE		2 2	MANDOV MANDOV H	TIPA OUTSIST OUTSIST	ITPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	ITPA 04/18/91 04/24/91		TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TTPA 04/18/91 04/24/91	TTPA DATIBISE DADASE	TPA 04/18/91 04/24/91	TTPA 04/18/91 04/24/9:	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TTPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	ITPA 04/18/91 04/24/91	TTPA 04/18/91 04/24/91	TIPA CANSAN CACASI	ITPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91	TPA 04/18/91 04/24/91
\$	E E	LAB DATE	OI OI	PA OUT	PA 04/I	PA 047	₩	TPA 04/18/91	PA 84	PA 040	PA 04/1	PA 04/1	PA 04/1	PA OW	PA 04/1	PA 04/1	PA 04/1	PA 04/1	PA 04/1	140 VA	PA 041	DA OUT	PA 04/1	W VA	DA OW	₹ 8	PA 84	PA 04/1	PA 04/1	PA 04/1	\ \ \ \
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	8	SAMPLE	W.CHARBER	WATER Q10409001A	Q10060001A	¥10060¥01Ò	Q10409001A	Q10409001A	¥100601010	Q10409001A	Q10409001A	Q10409001A	Q10409001A	Q10409001A	Q10409001A	Q10409001A	Q10409001A	Q10060901A	Q10409001A	Q10409001A	V10060101	V10060101D	Q1000001A	A100604019	¥10060¥01Ò	Q100001A	Q1000001A	Q10409001A	Q10409001A	Q10409001A	Q10409001A
		SAMPL SAMPLE	MATRIX NUMBER	VATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATTER	WATTER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATTER	WATER	WATER Q	WATER	WATER	WATER	WATER Q	WATER	WATER	WATER Q
			MUNABLER																				П								
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SAMPLE	COLLECTION	DATE TIME	MEMODY HEL	16/11/90	16/11/90	16/11/90	16/11/10	16/11/10	16/11/90	16/11/90	16/11/90	16/11/60	16/11/90	16/11/30	16/11/91	16/11/30	16/11/90	16/11/91	16/11/90	16/11/90	16/11/40	16/11/91	16/11/90	16/11/90	16/11/90	16/11/90	16/11/10	16/11/90	16/11/90	16/11/30	16/11/90
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	PROJECT	SAMPLE	NE PRESENT	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW01065WC	SW0106SWC	SW01065WC

RADIATION SCREEN z `≻ ΣН O ۵ Ra226, 228 2L89/90, C5137, ŏ 0222/224, 235, 238 4002-410 z VWZGI Pu239/240, Σ B/A SSORD DOC IF FILTERED **TOC** TEMPERATURE WITHIN SPECIFICATION OTHER PROBLEMS OR DISCREPANCIES HSS ¥ PCKG REC'D/CUSTODY SEALS INTACT PROJECT * O soud-o O MO3/MOS, HITE 'soud 101 SAMPLE LABELS/COCs AGREE CORRECTED COPY ATTACHED 122' 1D2' CI' E' 204' C02' HC02' 🕪'NOI LABORATORY USE ONLY PRESERVED WITH CEHR Ø METALS, Cs. Li, Sr. Sn. Mo ш. ш OIF AND GREASE ш 0 **TRIAZINES** PEST/PCB-CLP SAMPLERS D. BURGESS, B. MONTGOMERY, R. LAHIN В BNA-CLP $\boldsymbol{\sigma}$ BUE EE BAED THILL HILL **NOY-CFD** Nazszoj **PRESERVATIVE** POSZH × × × × 0280 125/14 ぶる DATE/TIME НИОЗ × HOAN × × 16/11 ZU(CSH20S)S × COOLED TO 4°C N/X > > > > > > > > > OUT OF SPEC REPORTS REQUIRED SHIPMENT METHOD R- HEUR DNUORA NRUT d=SSIQ TOG FILTERED=F L 3 MEDIA SOIL(S) WATER (W) 3 3 3 3 ₹ 3 ₹ ₹ ₹ 7 NUMBER OF CONTAINERS N 250 ML POLY SOO ME POLY BOD ME. POLY 04/05/91 CONTAINER RECEIVED BY SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

-WESTON GULF COAST HUNN: PK., IL TO ME AG TO ME AG 555 TO ME AG TYPE AC AG 1 L POLY 11 POLY 11 POLY 11 POLY 11.40 LOCATION 56PMS SM695 178 DATE/TIME -O-C NUMBER WC- Frod & WOODWARD-CLYDE FEDERAL SERVICES CHAIN OF CUSTOD 16/ SAMPLE NUMBER EG&G ROCKY FLATS SW DIDESW SMORSHONS 1025 REALINGUISHED BY 1540 1540 520 1555 ass 246 Q M 055 F30 550 CONTRACTOR. 545 555 55 DATE/TIME REMARKS 16/1 16111

Bate	ch No. <u>9104P128</u>		$\underline{\hspace{1cm}}$ Site \underline{S}	urface Water	•	
Lab	oratory <u>ITAS - Pittsburgh</u>		No. of	Samples/Ma	atrix <u>10/Wate</u>	er
SO	W # <u>7/88</u>	······	Review	wer Org. <u>O</u> u	antaLex, Inc.	
San sol	nple Numbers <u>SW01064WC (total aruble), SW80110WC (total and soluble</u>	nd soluble), S), SW80111	SW01065WC WC (total and	(total and so	luble), SW010	068WC (total and
		Data Assess	ment Summa	ary		
		ICP	AA	Hg	CN	Comments
1.	Holding Times			<u></u>	v	
2.	Calibrations	A	<u>v</u>	<u>v</u>		Action Item 1
3.	Blanks	A	<u>v</u>	v	v	Action Items 2-15
4.	ICP Interference Check Sample	A	<u>N/A</u>	N/A	N/A	Action Items 16-19
5.	Matrix Spike Sample Results	<u></u>	A	<u>v</u>	A	Action Items 20-24
6.	Duplicate Sample Results	<u>V</u>	V		<u>v</u>	
7.	Lab Control Sample Results		<u></u>		v	
8.	Method of Standard Addition	N/A	<u>v</u>	N/A	N/A	
9.	Serial Dilution	A	N/A	N/A	N/A	Action Item 25
10.	Sample Verification		v	v	<u>v</u>	
11.	Other QC	X	X	X	X	Comments 1-8
12.	Overall Assessment	<u> </u>	A	<u>v</u>	A	Data valid, or acceptable with qualifications
	 V = Data had no problems. A = Data acceptable but qualified due to problems. R = Data rejected. X = Problems, but do not affect data. 				N/A = Not appl	icable.
	ta Quality: Data contained in this batch w					
qua	lified data may be used provided that individu	al values impac	cted by the "Act	ion Items" listed	l below are appro	priately flagged.
(Re	fer to attached Results Summary Tables).					

Action Items: 1) The Cadmium value for SW01068WC (total) is estimated (J) because CRDL check sample
(CRI) recovery criteria were not met.
2) The Aluminum values for SW80110WC (total) is estimated and undetected (UJ) because Aluminum values
> IDL were found in the blanks.
3) The Aluminum non-detect for SW80110WC (soluble) is estimated and undetected (UJ) because of
negative bias as indicated in the blanks.
4) The Antimony values for SW01065WC (total and soluble) and SW01068WC (total) are estimated and
undetected (UJ) because Antimony values > IDL were found in the blanks.
5) The Barium, Magnesium, Potassium, and Zinc values for SW80110WC (total and soluble) are estimated
and undetected (UJ) because analyte values > IDL were found in the blanks.
6) The Calcium and Sodium values for SW80110WC (soluble) are estimated and undetected (UJ) because
analyte values > IDL were found in the blanks.
7) The Chromium and Cobalt values for SW01068WC (total) are estimated and undetected (UJ) because
analyte values > IDL were found in the blanks.
8) The Copper values for SW01065WC (total and soluble), SW01068WC (total and soluble), and
SW80110WC (total) are estimated and undetected (UJ) because Copper values > IDL were found in the blanks.
9) The Iron values for SW01064WC (soluble), SW01065WC (soluble), SW01068WC (soluble), SW80110WC
(total and soluble), and SW80111WC (soluble) are estimated and undetected (UJ) because Iron values > IDL were
found in the blanks.
10) The Lithium values for SW01068WC (total and soluble) and SW80110WC (total and soluble) are
estimated and undetected (UJ) because Lithium values > IDL were found in the blanks.
11) The Nickel values for SW01065WC (total) and SW01068WC (total) are estimated and undetected (UJ)
because Nickel values > IDL were found in the blanks.
12) The Molybdenum values for SW01065WC (total and soluble), SW01068WC (soluble), and SW80110WC
(total and soluble) are estimated and undetected (UJ) because Molybdenum values > IDL were found in the blanks.
13) The Silver values for SW01065WC (total and soluble), SW01068WC (total), and SW80110WC (total) are
estimated and undetected (UJ) because Silver values > IDL were found in the blanks.

Action Items (cont.): 14) The Thallium values for SW01064WC (soluble) and SW01065WC (soluble) are
estimated and undetected (UJ) because Thallium values > IDL were found in the blanks.
15) The Tin values for SW01065WC (total and soluble), SW01068WC (total), and SW80110WC (total and
soluble) are estimated and undetected (UJ) because Tin values > IDL were found in the blanks,
16) The Antimony, Cadmium, Cobalt, Chromium, Copper, Molybdenum, Nickel, Silver, Tin, and Vanadium
values for SW01064WC (total and soluble) and SW80111WC (total and soluble) are estimated and undetected (UJ)
because of possible Calcium interference as indicated in the ICP Interference Check Sample.
17) The Manganese and Zinc values for SW01064WC (total) and SW80111WC (total) are estimated and
undetected (UI) because of possible Calcium interference as indicated in the ICP Interference Check Sample.
18) The Lithium values for SW01064WC (total and soluble) and SW80111WC (soluble) are estimated (J)
because of possible Calcium interference as indicated in the ICP Interference Check Sample.
19) The Strontium values for SW01064WC (total and soluble) and SW80111WC (total) are estimated (J)
because of possible Calcium interference as indicated in the ICP Interference Check Sample.
20) The Selenium values for SW01065WC (total) and SW01064WC (total) are estimated (J), and the
non-detects for SW01068WC (total) and SW80110WC (total) are estimated and undetected (UJ) because
pre-digestion matrix spike recovery criteria were not met.
21) The Cyanide value for SW01065WC (total) is estimated (J), and the non-detects for SW01064WC (total),
SW01068WC (total), SW80110WC (total), and SW80111WC (total) are estimated and undetected (UJ) because
pre-digestion matrix spike recovery criteria were not met.
22) The Lead value for SW01065WC (total) is estimated (J) because post-digestion matrix spike recovery
criteria were not met.
23) The Selenium values for SW01065WC (soluble) and SW80111WC (soluble) are estimated (J), and the
non-detect for SW01064WC (soluble) is estimated and undetected (UJ) because post-digestion matrix spike
recovery criteria were not met.
24) The Thallium non-detects for SW01068WC (total) and SW80111WC (total) are estimated and undetected
(UJ) because post-digestion matrix spike recovery criteria were not met.

Action Items (cont.): 25) The Lithium values for SW01065WC (total and soluble) and SW80111WC (total)
are estimated (J) because ICP serial dilution criteria were not met.
Comments: 1) Several soluble values are greater than their corresponding total values.
2) A post-digestion spike concentration of 6.0 ug/L was used for Lead. To be compliant with SOW 7/88, the
spike concentration should have been 20.0 ug/L.
3) To be compliant with SOW 7/88, the digestion and distillation logs should indicate whether the final pH of
the prepped samples is < 2 or > 12, as applicable. No final pH values were reported.
4) To be compliant with SOW 7/88, the pH of the Cyanide samples should be > 12. Instead, the pH
commented on the chain of custody was 7.
5) To be compliant with SOW 7/88, the chain of custody should indicate that the samples SW01068WC (total
and soluble) and SW80111WC (total and soluble) were chilled to 4 degrees C (+/- 2 degrees C) in the field.
Instead, the samples were preserved at 10 degrees C.
6) The Arsenic, Lead, and Selenium raw data were rounded to whole numbers.
7) The Cyanide results are unverifiable because Mr. Snell Mills, Technical Director of ITAS - Oak Ridge, was
unable to supply QuantaLex with the equation that the Lachet system uses to convert the raw data into
concentrations.
8) The Cesium IDL used to validate and to report all non-detects was changed from 112 ug/L to 110 ug/L due
to a significant figure discrepancy.
Note: Data Summary Tables are attached.
Pamela C. McSellan 6/11/91
Validator Signature Date
Shristing N. Comes 10/11/91
Reviewer Signature Date

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:	5	SAMPL SAMPLE	WATER 010409009A	WATER 010409002A	O10409002A	WATER OTOMORODA	WATER OLDADOURA	A000000	WATER CIGORODZA	0104000034	WATER OTOMORODA	0104090094	O10409002A	O10409009A	Q10409002A	Q10409009A	Q10409002A	Q10409002A	Q10409002A	Q10409009A	Q10409009A	Q10409009A	Q10409009A	Q10409009A	Q10409002A	Q10409002A	Q10409009A	Q10409002A	Q10409002A	Q10409002A	Q10409009A	Q10409009A	V600604010	Q10409002A	Q10409009A	Q10409002A	WATER Q10409002A	Q10409009A	Q10409002A	Q10409009A	O) DACGODZA
		34		WATER	WATBR.	i i					1			1	1.		WATEL	1	WATER	WATER		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATEL	WATER		WATER
		BATCH	P128 04/17/01	P128 04/17/81	P128 04/17/91	D128 04/17/01	19/1/19 part 201	10 to 00 to	F128 CA/17/91	200000000000000000000000000000000000000	P128 04/17/01	01.20 CA 7.001	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	P128 04/17/91	16/11/90 8214	P128 04/17/91	P128 04/17/91	16/LU/10 1/Z 1d	P128 04/17/91	P128 04/17/91	P128 04/17/91	16/11/40 8214	P128 04/17/91	P128 04/17/91	P128 04/17/91	19/11/00 8214	P128 04/17/91	P128 04/17/91	P128 04/17/91	19/1/7/0 8/1/91
<u>"</u>	COLLECTION	DATE TIME	É	I		I	I	1	Ţ	I	I		I	I						=		Ī	=			Ē	1.	11	11	10	15	16	5	12	16	16	ī	ī	Ē	16	10
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İ	PROJECT	SAMPLE	CU/OLOGADIC	Sworows	SWOIDEAWC	CWOIOCONC	SWOLOGANC	SWOIDOWC	SWOIDSAWC	Swilliam	SWOLDSAWC	SWOJOSAWC	SWOODS	SWOIDEAWC	SWOIDSAWC	SW01064WC	SWOIDSAWC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SWOIDGAWC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	SW01064WC	CWDIDGAWC

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SAMO E	DATE THE	RATCH	SAMP	_	70 87	VIE DATE	E TIME	SAMPLE		CAS	ANALYTIC QUA		2 SKG OF			REASONS		8	
MUMBER	MAN COOK		MATRIX		OO/MAN OI		30/ HH:	NUMBER	0	В	RESULT IRER		~	MEASU TIME		V 1 2 3 4	RESULT	MEASU	
SW01064WC	04/11/91	P128 04/17/91	WATER	WATER Q10409009A	8	10/05/91 04/30/91	16/		SMETCLPTC S1	~	83.1		æ		Chromium	- 1			
SW01064WC	04/11/91	P128 04/17/91	WATER	Q10409002A	ğ	04/25/91 04/30/91	16/		DMETCLETA TRG		19.70	-	UG/L	٦.	Chromium	10.0000 1A 9			_
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409002A	8	04/25/91 04/30/91	16/		DMETCLFTAD	_	6.2270 B	_	UGA	7	Cobalt	20:0000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	8	16/05/91 04/30/91	16/		SMITCLPIC SI	-~		-	32	-	Cobalt	20:0000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409002A	ह	16/05/91 04/30/91	160		DMETCLETA TRO	- 1	7.00	_	DG∕L	V	Cobalt	50.0000 1A 9			<u> </u>
SW01064WC	18/10/10	P128 04/17/91	WATER		8	19/05/91 04/30/91	16¢		SMETCLPTC TRO		7.90 B	_	NOV	V	Cobalt	30,0000 14, 9			2
SWOIDSAWC	19471.781	P128 04/17/91	WATER	O10409002A	8	19/23/91 04/30/91	ē		DMRTCLPTA S1	Ĩ	4 88	-	4		Cobalt	30.000			
CWOTOKAWO	1971791	P128 04/17/91	WATER	O10409009A	8	25/91 04/30	16		SMETCL PTC D	-	5.4580 13	H	NOV	V	Cobalt	30.000			
SW01064WC	0401091	P128 04/17/91	WATER		8	04/25/91 04/30/91	160		SMETCL/PTC D	_	9.9150 B	_	UGAL	٧	Copper	25,0000			Ш
SWD10K4WC	18/1/81	P128 04/17/91	WATER		Š	04/25/91 04/30/91	160		SMITCLETC S1		0.16	_	r.		Copper	25.0000			
SW01064WC	19(1)/01	19/2/104/17/91	WATER	Q10409009A	ğ	04/25/91 04/30/91	16/		SMETCLIFIC TRO		10.20 B	_	UG/L	V	Copper	25,0000 M 7 9			2
SW01064WC	16/1/201	P128 04/17/91	WATER	Q10409002A	Š	04/25/91 04/30/91	i ē		DMETCLPTAD	٦	6.7580 B		NO/I	Ψ	Copper	25.0000			
SW01064WC	04/1/91	P128 04/17/91	WATER	1	ह	04/25/91 04/30/91	16/		DMETCL PTA S1	-	93.0	-	8		Copper	25.0000			╝
SW01064WC	04/11/91	P128 04/17/91	WATER	T	ह	16/25/91 04/30/91	164		DMETCL PTA TRO	Ĩ	8.20 B	В	חכער	V	Copper	25.0000 IA 7 9			5
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	ğ	16/61/90 16/61/90	16/		SMETCL PTC D	1	. 5000 U		NGA	V	Cyanide	10,0000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	ड	16/61/90 16/61/90	16/		SMLTCLPTC 52	_		U	*		Cyanide	10.0000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	8	16/61/90 16/61/90	16/		SMRTCLPTC 51	7		z	*		Cyanide	10.0000			
SW01064WC	16/11/61	P128 04/17/91	WATER	Q10409009A	8	16/61/90 16/61/90	160		SMETCLPTC TRG		2.50 U	N	T/DO	V	Cyanide	10.0000 JA 8 12			
SW01064WC	16/11/0	19/10/09/19	WATER	Q10409002A	8	04/25/91 04/30/91	ī¢.		DMPTCLPTA TRG		36.90 B	В	DOAL.	ν	Iron	100.0000 IA 7			Þ
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	8	04/25/91 04/30/91	ě.		SMITTCLPTC S1		1.7		3		Iroa	100,000			
SW01064WC	04/11/91	P128 04/17/91	WATER	Q10409002A	Š	04/25/91 04/30/91	16/		DMETCLETAD		64.2770 B		UGAL	Ψ	Iron	100:000			
SW01064WC	16/11/10	P128 04/17/91	WATER	Q10409002A	Š	16/06/10 16/52/10	16/		DMITCLETA SI		100.5	-	*		Iron	100.000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	8	25/91 04/30	16/		SMITCLPTC TRO		350.00		UG/L	ų.	Iron	100.0000 v			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	Š	04/25/91 04/30/91	16/		SMETCH D		373.1840	-	NO/L	٧.	Iron	100,000			
SW01064WC	16/11/91	P124 04/17/91	WATER	Q10409009A	કે	19/25/91 04/29/91	16/		SMITCHE D		۶		UGA.	¥	Lead	3,0000			
SW01064WC	16/11/91	19/1/1/01 12/14	WATER	Q10409009A	ď	25/91 04/25	16/		SMITTLE TRO			A C	UQ/I	۷.	Lead	3.0006 v			
SW01064WC	16/11/61	P128 04/17/91	WATER	Q10409009A	Š	04/25/91 04/29/91	18/		SMITH LFIT S1		107.5	-	#		Lead	3,0000			
SW01064WC	16/11/20	P128 04/17/91	WATER	Q10409002A	8	25/91 04/25	16/.		DMITCL/PTA S1		106.5	-	8	-	lead	3,0000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409002A	đ	04/25/91 04/29/91	16/		DMERCLETA TRO			ם	UG/L	7	Load	3,0000 v			
SW01064WC	16/11/30	P128 04/17/91	WATER	Q10409002A	ਨੱ	16/52/91 04/29/91	16/		DMETCLPTAD		٦	-	UG/L	7.	Lead	3.000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409002A	Š	04/25/91 04/30/91	16/		DMBTNOCL TRG		8	ш	UOL	ų.	Lithium	100.0000 1A 9 17			
SW01064WC	16/11/90	P128 04/17/91	WATER	Q10409009A	8	04/25/91 04/30/91	16/		SMETNOCLP S1		6.88	-	*	-	Lithium	100.000			
SW01064WC	16/11/90	P128 04/17/91	WATER	Q10409002A	ð	04/25/91 04/30/91	165		DMETNOCL, D		320.2760	+	UG/L	7	Lithium	100,000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	ð	725/91 04/30	ī		SMETNOCLP TRO		0	12	UQ/L	ų,	Lithium	100.0000 JA 9 17			
SW01064WC	16/11/90	P128 04/17/91	WATEE	Q10409002A	ž	04/25/91 04/30/91	165		DMRTNOCI. SI		93.0	-	*		Lithium	100,000			
SW01064WC	16/11/91	P128 04/17/91	WATER	Q10409009A	8	04/25/91 04/30/91	Ē		SMRTNOCL/P D		309.2090	\dashv	NOA.	ų.	Lithium	100.000			
SW01064WC	16/11/91	16/11/10 az rq	WATER	Q10409009A	ð	18/06/90] 18/56/90	164		BMITH D		76402.1440	+	UOV.	γ.	Magnesium	3000,0000			Ш
SW01064WC	10/11/01	P128 04/17/91	WATHE	WATHE Q10409002A	ð	19/25/90 04/25/90	184		DARREST PEA TREE		78600.00	-	DOA.	γ.	Magnosium	\$000,0000 v			
SW01064WC	16/11/90	P128 04/17/91	WATER	Q10409002A	ð	19/25/91 04/30/91	16/1		DMPTCLFTAD		80453.2350		ž	UQA.	Magnesium	9000,0000			
SW01064WC	16/11/91	P128 04/1/91	WATER	Q10409009A	8	19/25/91 04/20/91	<u>§</u>		SMETCL PTR		78000.00	-	5	UQ/L	Magnesium	A 0000'0005			L
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INSTRUMEN	DETECTION	3	3	oronic !	Target I	25.000	15.0000	15.0000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	200.000	200,000	200,000	200.0000	200,000	200,000	40,000	40,000	40,000	40.000	90000	9	3000	2000000	900	3000.0000	NO.	BBG	3,000	2,000	2.888	2,000	3,000	10,000	10,000	10,000	10.000	10.000	10,000
	BADAMETED NAME	PAKAMETER MAME	Mailgairee	Manganese	Manganese	Manganese	Mangapose	Manganose	Mercury	Mercury	Mercury	Mercury	Mercury	Mercury	Molybdenum	Molybdenum	Molybdenum	Molybdenum	Molybdenum	Molybdenum	Nickel	Nickel	Nickel	To a series	Nickel	Miskel	Detections	Potestium	Doi: -	r overeiten	Potassium	Selemium	Scientian	Scienium	Selenium	Selenium	Selenium	Silver	Silver	Silver	Silver	Silver	Silver
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	ANALYTIC OUA	E SOL	3.60	0.16	3.04/2	8	1.0000	988	0.20	121.0	0.2000	0.2000	0.20	114.0	7.00	6.68	8.60	7.1750	86.2	7 6630	86.5	0.705.0	17 8630	200	12.90		88.4	43380.63	00.000	45/01.46	44600.00	200	2,0000	0.09	2.0000	2.00	80.0	9.40	0.88	87.3	8.K200	9.80	7 6330
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St	PANEL	CODE	SMETCHE TR	DMETCLPTA S1	SMETCL PTC D	DMETCL PTA TR	DMETCLITAD	SMETCL/FIC SI	DMETCH PTA TR	SMETCE SI	DMINTCLITTAD	O THE PATRICE	SMETGLING TR	NAPICI PTA SI	WILLIAM THE	DWHTNOC	TRONGING!	C M COOK ON A	IS A DONLING	C TANADA	15 July Children		DMERCLIFTAD		DMETCL FTA TR	SMETCLETC	DMETCT PTA SI	SMETCL PTC D	SMETCHE IN	DMETCLETAD	DMETCL PTA TR	DMETCLETA TRO	SMRTCL PTC D	SMETTCL SI	DMETCLIFTAD	SMETCLFTC TR	DMETCLETA SI	IMPRESENTA TR	DMETCLITA S1	SMITCLITIC \$1	SMRTCL PTC D	SMRTCLPTC TR	4
TEST		8	3	Ä	N.	Ž	NO.	Ä	MG	NS.	NO	3	NS.	1	7	1	1	3	3				2	6	à	8	å	38	2	â	É	ŝ	ŝ	ŝ	Ϋ́C	AS.	16	•(1	å	33	ŝ	6	ſ
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ANALYSIS	DATE	MALVOOY MULVOOY HET:	04/25/91 04/30/91	04/25/91 04/30/91	04/30/91	04/30/91	04/30/9	0/06/90/9	19/27/91 04/27/91	04/73/0	8,00		2000	200	16/77/20 16/77/20 PG	200	100000	900	C4/22/91 C4/20/91		04/2/91 (04/2/91	(/2/)	04/25/91 04/30/91	S)	84/30/20	04/25/91 04/30/91	04/25/91 04/30/91	04/25/91 04/30/91	04/25/91 04/30/91	04/25/91 04/30/91	16/06/10 16/52/10	18/62/20 18/52/20	16/52/91 04/53/91	04/25/91 04/29/91	16/22/91 04/25/91	16/52/91 04/23/91	16/52/10 16/52/10	04/25/91 04/30/91	04/25/91 04/30/91	04/25/91 04/30/91	19/05/91 04/30/91	04/25/91 04/30/91	
PREP	ATE.	90	16/5/91	1/25/91	1/25/91	16/57/1	18/52/9	10/5/23	18/2/3	107.07	1000		100			100	9		ideal.		100	(CT)	16/52/4	1/23/91	4/25/91	173/91	16/52/31	16/22/41	16/52/31	1/25/91	16/22/4	18/23/8	16/52/4	X/25/91	16/22/91	16/52/10	16/52/3	16/52/91	X/25/91	16/27/91	16/22/91	16/22/10	
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3	SAMPLE	NUMBER	WATER Q10409009A	Q10409002A	Ø10409009A	Q10409002A	O10409002A	Agrocono	O10409002A	Asmena	ACCOUNTS	Alleman Alleman	CI CACOCOCA	Attendant Co.	Q1000007A	ACOMOND!	Violento I	WOOD OF THE PERSON OF THE PERS	Q10409009A	(Indonesia	Q10409002A	Q10409009A	Q10409002A	Q10409009A	Q10409002A	Q10409009A	Q10409002A	Q10409009A	Q10409009A	Q10409002A	Q10409002A	Q10409002A	Q10409009A	V600601010	A20090010	Q10409009A	Q10409002A	Q10409002A	Q10409002A	WATER Q10409009A	Q10409009A	WATER Q10409009A	
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RADIATION SCREEN Z \ НΩ O R3226, 228 ۵ 2L89/90, CS137, 4002-410 0 U233/234, 235, 238 α z PU239/240, AM241 Σ **B/A 22099** DOC IF FILTERED <u> 201</u> TEMPERATURE WITHIN SPECIFICATION HSS OTHER PROBLEMS OR DISCREPANCIES PCKG REC'D/CUSTODY SEALS INTACT SOUd-0 PROJECT NO3/NOS' NHO Tot Phos, SAMPLE LABELS/COCS AGREE CORRECTED COPY ATTACHED TSS, TDS, C1, F, SO4, C03, HC03, SL,NQ2 LABORATORY USE ONLY ပ PRESERVED WITH SCHOOL Sh, Mo METALS, Cs, L1, Sr, OIL AND GREASE **TRIAZINES** PEST/PCB-CLP ပ BNY-CLP В 8 SAMPLERS D. BURGESS, B. MONTGOMERY, R. LAMM PRESERVED WITH HCL A **VOA-CLP** Nazszoj **PRESERVATIVE ∀OSZH** 0270 DATE/TIME HNO3 HOAN × Duzin ZU(CSH2OS)S 9 COOLED TO 4 C ≻ ➣ Y > N/X OUT OF SPEC REPORTS REQUIRED SHIPMENT METHOD R= HSUR GNUORA MRUT d=SSIQ TOd FILTERED=F 4 MEDIA SOIL(S) WATER (W) NUMBER OF CONTAINERS 7 200 LE POLY BOD ME, POLY BOD MAL POLY 255 11-11 03/28/91 CONTAINER RECEIVED BY Bruce LaRue (303) 966-5874 TES ME. AG TES ME. AG 11 POLY SO THE AG 1 L POLY 11 POLY 11 POLY SITE CONTACT/PHONE Bruce LaRue (303) 988-58

SITE CONTACT/PHONE BRUCE CONTACT/PUNIV. PK., IL. 16 AG TYPE 12 BC 11.49 (40t) LOCATION SW09 SWOR 715 EG&G ROCKY FLATS PLAN DATE/TIME -O-C NUMBER WC-GROOD WOODWARD-CLYDE FEDERAL SERVICES CHAIN OF CUSTODY <u>4</u> 2 SAMPLE NUMBER SWBDIIBNC SMEDIEMC LINOUISHED BY 1520 LAB/LOCATION. 1515 520 525 420 610 535 3 150 CONTRACTOR, 0131 50 DATE/TIME REMARKS 4 | | |

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R3226, 228 Sr89/90, CS137, ۵ 4002-410 0 0522/524' 522' 528 Ζ PU239/240, AM241 BIA SZORÐ DOC IF FILTERED <u> 201</u> TEMPERATURE WITHIN SPECIFICATION HSS OTHER PROBLEMS OR DISCREPANCIES PCKG REC'D/CUSTODY SEALS INTACT 2 0 N soud-o PROJECT MO3/MOS, #HO# Tot Phos, SAMPLE LABELS/COCS AGREE CORRECTED COPY ATTACHED I 122' 1D2' CI' E' 204' CO2' HCO2' # 'NO# I LABORATORY USE ONLY ق PRESERVED WITH COHOOC CN G METALS, Cs, L1, Sr, Sn, Mo Œ, ш OIL AND GREASE ш L. SAMPLERS DANIEL BURGES, BRIAN MANGOMERY, ROBERT LATT **TRIAZINES** 0 ပ PEST/PCB-CLP Θ BNY-CLP α **SUPPLE DE MILITHICE** ⋖ VOA-CLP Na2S203 **PRESERVATIVE** HS204 × × × × 2121 OTTO DATE/TIME HNO3 × × HOAN × 14-11-61 13 11.3 ZU(CSH20S)S × COOLED TO 4 C > > > > > > >-> > > > OUT OF SPEC REPORTS REQUIRED R= HSUR GNUORA MRUT d=SSIQ 10d FILTERED=F ш <u>え</u> MEDIA SOIL(S) WATER (W) 3 3 3 3 3 ₹ * 3 ₹ ₹ 3 ₹ your He NUMBER OF CONTAINERS ~ 250 ML POLY 11-16-ONTAINER 500 ML POLY BOO MIL POLY 04/05/91 RECEIVED BY Bruce LaRue (303) 966-5874 125 ML AG 125 ME AG IL AG 12 AC DIME AG 11 POLY TYPE 1 L POLY 11 POLY 11 POLY LAB/LOCATION NESTON QULF CONST HUNN. PK., IL 11.49 -O-C NUMBER W.C. Exadas (1., f?) LOCATION SM094 SWOR 211 DATE/TIME EG&G ROCKY FLATS ALAN WOODWARD-CLYDE FEDERAL SERVICES CHAIN OF CUSTOD 4/11/0/ SAMPLE NUMBER SMB1BC4WC SWDIEL 4WC 7 SITE CONTACT/PHONE RELINGUASAED BY 0577 1250 SO 140 1350 1430 500 DCT) S CONTRACTOR, **F69** 766 DATE/TIME 53 REMARKS 10/11/4 *5*/€/\$

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000443 RADIATION SCREEN Z \ ≻ C 2L89/90, CS137, ۵ R2226, 228 0 0222/224' 222' 228 4002-410 z PU239/240, AM241 3 **B/A 22099** Σ DOC IF FILTERED TOC *IEMPERATURE WITHIN SPECIFICATION* OTHER PROBLEMS OR DISCREPANCIES × SZH PCKG REC'D/CUSTODY SEALS INTACT Z 0 2 soud-o PRO JECT NO3/NOS'新文件 Tot Phos, SAMPLE LABELS/COCS AGREE CORRECTED COPY ATTACHED I CJ' E' 204' CO2' HCO2' #'NO 'SQT 'SST LABORATORY USE ONLY Ø CN 9 METALS, Cs, LI, Sr, Sn, Mo 4 ш OIF AND GREASE TRIAZINES J PEST/PCB-CLP C BNA-CLP m В B. MONTGONERY R. LAHA BUCKE B 林山中HCP **NOY-CLP** Na2S203 **PRESERVATIVE** 0490 HSSO4 × × 1866 DATE/TIME HMO3 HOAN 181 1/11/4 **ZU(CSH20S)S** × COOLED TO 4 C OUT OF SPEC REPORTS REQUIRED A= HEUR GNUORA NRUT SHIPMENT METHOD SAMPLERS D. BURGESS d=SSIQ 10d FILTERED=F W MEDIA SOIL(S) WATER (W) 3 3 3 * ₹ 4 4 NUMBER OF CONTAINERS 250 ML POLY BOO MAL POLY BOD ML POLY RECEIVED BY 04/05/91 CONTAINER Bruce LaRue (303) 966-5874 126 ML AG 125 ML AG 11 POLY 40 ML AG 11 POLY 11 POLY TYPE 11 POLY LAB/LOCATION WESTOK SULF COAST JUNIV. PK.,IL 116-91 11 AG S (20F7) LOCATION SWOIDCAMONS SWOOD SNDIDGAWCMS SWAGY 348 EG&G ROCKY FLATS PLANT DATE/TIME WOODWARD-CLYDE FEDERAL SERVICES CHAIN OF CUSTODY -O-C NUMBER WC- EX BAB 16/11/ SAMPLE NUMBER SITE CONTACT/PHONE. RELINGUISHED BY 0,55 430 1450 1400 1350 50 1350 1300 1460 1405 1400 3 CONTRACTOR. DATE/TIME REMARKS 100 *(1)*

Cyanide pH = 7 - analyze as is as per Bruce Laffur. RADIATION SCREEN Z \ > OTHER PROBLEMS OR DISCREPANCIES PPINE 14 FODA O 8226, 228 Sr89/90, CS137, ۵. 4002-410 0 0222/224' 222' 228 Acceived 4-18-9 Z 9 PU239/240, AM241 Σ B/A SSORD DOC IF FILTERED TOC TEMPERATURE WITHIN SPECIFICATION SZH PCKG REC'D/CUSTODY SEALS INTACT soud-o PROJECT * NO3/NOS' NH tot Phos, SAMPLE LABELS/COCs AGREE CORRECTED COPY ATTACHED TDS, CI, F, SO4, C03, I LABORATORY USE ONLY CN DBEZEBAED MITH CEHBOR <u>ں</u> Sr, Sn, Mo WEIVES' CE' FI' K.45 Ш OIF AND GREASE TRIAZINES PEST/PCB-CLP S (00) CF BNY-CLP 8 8 SAMPLERS D BURGESS B. MONTCOMERY R. LAHA PRESERVED WITH HCL. VOA-CLP NaZSZOJ **PRESERVATIVE** HSSON 0060 18-81-3 5121116/11/5 DATE/TIME HNO3 HOAN ZV(CSH20S)S ᅎ COOLED TO 4 C N/X > > 7 OUT OF SPEC REPORTS REQUIRED A- HEUR QNUORA NRUT FILTERED=F d=SSIQ 10d u. SHIPMENT METHOD MEDIA SOIL(S) WATER (W) 3 4 4 NUMBER OF CONTAINERS 0 ME POLY BOD ME. POLY BOD ML POLY 03/28/91 CONTAINER RECEIVED BÝ Bruce LaRue (303) 966-5874 TOO INE. AG TZB ML AG 12 AG AD ME. AG 1 L POLY 11 POLY 11 POLY 1 L POLY 1180 TYPE SITE CONTACT/PHONE Bruce LaRue (303) 988-58
LAB/LOCATION WESTÓN GULE COAST /ILININ PK ,IL 1 L AG 555 C-O-C NUMBER WC - L-KDDDS (5.17) Court LOCATION SMOR 1715 EG&G ROCKY FLATS PLANT DATE/TIME WOODWARD-CLYDE FEDERAL SERVICES CHAIN OF CUSTODY 76/11 16/01 SAMPLE NUMBER SMRØIIIWC SWBBIIIW RELANDUIA PEDABY 14क्स 1350 350 1250 320 1335 **क्र**म् (TOD HSO. 100 CONTRACTOR_ DATE/TIME REMARKS 4||P

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Bato	ch No. <u>9104P128</u>					_ Site	Surface	Water		
Lab	oratory <u>ITAS - Pitt</u>	sburgh	· · · · · · · · · · · · · · · · · · ·		<u> </u>	_ No.	of Samp	oles/Mat	rix <u>5/W</u>	ater
Met	hod Standard Met	hods				_ Rev	iewer O	rg. Qua	ntaLex, I	nc.
San	iple Numbers <u>SW0</u>	1064W	C. SW0	1065WC	. SW010)68WC.	SW8011	owc, s	W80111	WC
					ssessme					
		TOC/ DOC	F/ Silica	Phos.	Alkal.	Cl		Sulfide/G Sulfate	Oil&Greas Grav.	e Comments
1.	Holding Times		<u>v</u>	<u>A</u>	_ <u>V</u>	<u></u>	_A	<u>v</u>	<u>v</u>	Action Item 1
2.	Calibrations	<u>v</u>	<u>_v</u>	<u>_v_</u>	<u>v</u>	_ <u>V</u>	<u>_v</u>	<u>v</u>	<u>v</u>	
3.	Blanks	_ <u>v</u>	<u>_v</u>	<u>v</u>	<u>v</u>	<u>_v</u>	<u>_v_</u>	<u>v</u>	<u>v</u>	
4.	Lab Control Sample Results	<u>v</u>	<u></u>	_N/A_	<u>v</u>	<u>_v</u>	N/A	<u>v</u>	<u>v</u>	
5.	Duplicate Sample Results	_ <u>v</u>	<u></u>	<u>v</u>	<u>_V</u>	_ <u>v</u>	<u>_v</u>	<u>v</u>	<u>A</u>	Action Item 2
6.	Matrix Spike Sample Results	<u></u>	<u>_v</u>	<u>v</u>	<u>_V</u>	<u></u>	<u>v</u>	<u>v</u>	N/A	
7.	Sample Verification	<u>_v</u>	<u></u>	<u>v</u>	<u>v</u>	<u>_v</u>	<u>v</u>	<u>_v</u>	<u></u>	
8.	Other QC	<u>v</u>	_ <u>V</u>	<u>v</u>	<u>X</u>	_ <u>v</u>	<u>v</u>	<u>v</u>		Comments 1-2 Data valid or acceptable
9.	Overall Assessment	<u>v</u>	<u>_V</u>	_A	<u>_Y</u>	<u>_Y</u>	<u>A</u>	<u>v</u>		with qualifications
	 V = Data had no problems. A = Data acceptable but qu R = Data rejected. X = Problems, but do not a 	alified due	to problems.						N/A = No	ot applicable.
Dat	a Quality: Data conta	ained in t	his batch y	were reviev	wed and fo	ound to be	valid or a	cceptable	with qualif	ications. Acceptable,
gual	ified data may be used p	rovided t	hat individ	lual values	impacted	by the "A	action Item	s" listed b	elow are ar	opropriately flagged.
(Ref	er to attached Results Su	mmary 7	Tables).							

Action Items: 1) All o-Phosphate and Nitrite values are estimated (1), and non-	detects are estimated and
undetected (UI) because the holding times were grossly exceeded.	
2) All TSS values are estimated (J), and all non-detects are estimated and unde	tested (TIT) because the
2) An 155 values are estimated (1), and an inon-detects are estimated and under	tected (O3) because the
duplicate precision criteria were not met.	
Comments: 1) A duplicate was not analyzed for Oil & Grease; data not affected	
2) All Carbonate non-detects are reported to the IDL; correct values appear on	the Summary Table
2) An Carbonate non-detects are reported to the IDE, correct values appear on	the Summary Papie.
Note: Data Summary Tables are attached.	
William H. meice	6/24/91
Validator Signature	Date
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Of Capit	4/24/91
Reviewer Signature	Date

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